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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/040,094	01/04/2002	Gerald M. Clum	124252.2	8851
7:	590 01/12/2004		EXAMINER HWU, DAVIS D	
James M. Sing				
One Mellon Ce 500 Grant Stree	nter, 50th Fl.		ART UNIT	PAPER NUMBER
Pittsburgh, PA	15219		DATE MAILED: 01/12/200	4 7

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
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Offic Action Summary	10/040,094	CLUM ET AL.				
Offic Action Summary	Examiner	Art Unit				
The MAIL INC DATE of this communication of	Davis Hwu	3752	<u> </u>			
The MAILING DATE of this communication appering d for Reply	opears on the cover she it what the	correspondence add	ress			
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 22		timely filed lays will be considered timely. om the mailing date of this con NED (35 U.S.C. § 133).	nmunication.			
,— · · · — —	s action is non-final.					
3)☐ Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) <u>1-45</u> is/are pending in the application 4a) Of the above claim(s) <u>11-30</u> is/are withdrays. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1-10,31-41,43 and 44</u> is/are rejected. 7) ☐ Claim(s) <u>42 and 45</u> is/are objected to. 8) ☐ Claim(s) are subject to restriction and	awn from consideration.					
Application Papers	•		•			
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) according a deposition of the deposition of the Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the left in the declaration is objected to by the left in the declaration is objected to by the left in the declaration is objected to by the left in the declaration is objected to by the left in the declaration is objected to by the left in the declaration is objected to by the left in the declaration is objected to by the left in the declaration is objected to by the left in the declaration is objected to by the left in the declaration is objected to be declaration.	ccepted or b) objected to by the e drawing(s) be held in abeyance. Section is required if the drawing(s) is contained in the drawing(s) is contained in the drawing(s) is contained in the drawing(s).	See 37 CFR 1.85(a). Objected to. See 37 CFF				
Pri rity under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the pr application from the International Bure * See the attached detailed Office action for a li: 13) Acknowledgment is made of a claim for domes since a specific reference was included in the first sentence of 14) Acknowledgment is made of a claim for domes reference was included in the first sentence of	nts have been received. Ints have been received in Applicationity documents have been received in Applicationity documents have been received (PCT Rule 17.2(a)). Instructionity under 35 U.S.C. § 1199 (Instruction of the specification of the	ation No ived in this National S ved. 9(e) (to a provisional or in an Application E eceived. 20 and/or 121 since a	application) Data Sheet.			
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	ry (PTO-413) Paper No(s) I Patent Application (PTO-				
U.S. Patent and Trademark Office PTOL-326 (Rev. 11-03) Office	Action Summary	Part of	Paper No. 7			

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DETAILED ACTION

Claim R j ctions - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 4-10, 31-41, 43, and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lindsay in view of Jackson.

The patent to Lindsay discloses vacuum system for removing water from a field, the system comprising:

- a vessel 9 for collecting fluid, the vessel having a fluid inlet aperture, a fluid egress aperture, and an air egress aperture;
- a vacuum pump 45 for generating a stable reduced pressure within the
 vessel, having a first conduit 44 for withdrawing air from the vessel, the first
 conduit being in fluid connection to the vessel at the air egress aperture, and
 a second conduit 44 for expelling the air withdrawn from the vessel (see
 Figure 2);
- a connector provided by conduit 8 for fluidly linking the vessel to the field, the
 connector having a first and second end, the first end linked to the vessel at
 the fluid inlet aperture, and second end having a fitting for linking to the field;
- a filter 47 as recited in claim 35.

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Lindsay does not disclose the vacuum system being used in a fire safety system. The patent to Jackson teaches an underground installed fire safety system. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have used the device of Lindsay to remove water from an underground installed fire safety system taught by Jackson. Regarding claims 5 and 6, it would have been obvious to one having ordinary skill in the art that the pressure within the vessel be within the range of tolerances of the components for safety purposes and that the pump comprises a motor and a piston assembly. Claims 4 and 7-10 and the pressure recited in claim 35 are matters of design choice depending on the required capacity of the vacuum system and the desired fitting method. The device of Lindsay and Jackson is capable of carrying out the methods as recited in claims 31-33 and the method as recited in claim 34 is a matter of user preference in order to attach the vacuum system to the fire safety system. Also, one having ordinary skill in the are would recognize that the second conduit could also vent to the atmosphere as recited in claim 35 and using a fan assembly for the pump as recited in claim 37 is a design choice depending on preferences.

3. Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lindsay in view of Jackson as applied to claim 1 above, and further in view of Borovina et al.

The patent to Borovina teaches a water holding tank PH having a pressure gauge 35 to provide an indication of the pressure within the tank and a pressure relief valve 36 for relieving excess pressure from the tank. It would have been obvious to one having

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ordinary skill in the art at the time the invention was made to have modified the device of Lindsay and Jackson by incorporating a pressure gauge and a pressure relief valve as taught by Borovina et al. for the reasons stated above.

Allowable Subject Matter

4. Claims 42 and 45 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The patent to Nagano Pump KK is pertinent to Applicant's invention.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Davis Hwu whose telephone number is 703-305-1663. The examiner can normally be reached on M-F 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Y. Mar can be reached on (703)308-2087. The fax phone number for the organization where this application or proceeding is assigned is (703)872-9302.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0861.

Davis Hwu